IQBoard UI V7.0

User Manual

Copyright(C) 2003-2013 Returnstar Interactive Technology Group Co., Ltd.
Web: www.recoverystar.com; www.iqboard.net
Tel: 0086-591-87274373
Fax: 0086-591-87274383
E-mail: master@iqboard.net

Statement

This manual is for IQBoard UI V7.0.

Use this product strictly according to the detailed operation instruction in this manual so as to ensure proper use. Please read this manual carefully before you install this product.

Opening the package means you have agreed to purchase this product, Returnstar will not accept returns of opened packages.

The product specifications may be subject to change without prior notice. The sample pictures in this User Manual may differ from the real product.

Returnstar reserves all rights to charge the fee at anytime for product replacement, revision and update. The information in this manual is subject to regular change without prior notice. Returnstar will make no warranties with respect to this product and disclaims any warranties, whether express or implied, of merchantability and fitness for a particular purpose.

Trademark Notice

Returnstar and IQBoard are registered trademarks of Returnstar Interactive Technology Group Co., Ltd.. Windows is a registered trademark of Microsoft Corporation.

Recycling

Always return your used electronic products, batteries, and packaging materials to separate collection. This way you help prevent uncontrolled waste disposal and promote the recycling of materials.

TABLE OF CONTENTS

STATEMENT **2**

TRADEMARK NOTICE **2**

RECYCLING **2**

CHAPTER 1 PRODUCT INTRODUCTION **4**

CHAPTER 2 TECHNICAL SPECIFICATIONS **6**

CHAPTER 3 MODEL DESCRIPTION **7**

CHAPTER 4 HARDWARE INSTALLATION **8**

4.1 SIGNAL PEN 8
4.2 RECEIVER (FOR IQBOARD UI D006XP ONLY) 8
4.3 MOUNT IQBOARD UI D006LP 9
4.4 CONNECT RECEIVER WITH CONTROLLER 11
4.5 CONNECT CONTROLLER WITH PC 11
4.6 ADJUST PROJECTION AREA 12

CHAPTER 5 INSTALL AND UNINSTALL DRIVER **13**

5.1 INSTALL 13
5.2 UNINSTALL 13

CHAPTER 6 ORIENTATION **14**

CHAPTER 7 SETUP HOTKEYS **16**

CHAPTER 8 WRITING SETTINGS **18**

CHAPTER 9 OPERATION **19**

9.1 SIGNAL PEN 19
9.2 HOTKEYS 20

CHAPTER 10 FAQ **22**

CHAPTER 11 CAUTIONS AND MAINTENANCE **24**

11.1 RECEIVER AND CONTROLLER 24
11.2 USB CABLE 24
11.3 TRANSPORT 24
11.4 PART REPLACEMENT 24

Chapter 1 Product Introduction

IQBoard UI is a portable and low cost device which can transform any flat surface (including normal whiteboard, display, and even wall) into interactive working place. Simply attach IQBoard UI to any whiteboard or display, connect your PC and aim your projector, you instantly have an interactive platform. Pick up the signal pen which behaves like a mouse, you can now write in digital ink and control desktop applications directly from the board.

IQBoard UI has the following features:

Portable Design

Besides the magical power of transforming any flat surface into interactive platform, the entire system weighs less than 2kg. So you can have an interactive whiteboard whenever and wherever you go.

Easy Set-up

Simply attach IQBoard UI to any flat surface and enjoy your interactive experience. The whole set-up and orientation process can be done by anyone within a few minutes.

Interactive Mouse Pen

While providing you the most natural writing feel, the ergonomic signal pen can also behave like mouse in performing left-click, right-click, double click and other mouse functions. You will find that controlling your interactive whiteboard has never been easier.

Save Everything on Board

Whether written in digital ink or by dry erase marker, IQBoard UI can save everything written on board to editable files, from every single stroke to the whole teaching process. Your extraordinary moment can become eternity.

Convenient Hotkeys

Provide 14 keys on the left side of whiteboard surface to achieve certain frequently used functions. The functions of some keys can be customized.

Powerful IQBoard Software

Specially designed for interactive teaching and presentation, IQBoard Software is a powerful yet easy-to-use tool that brings your lesson and conference to life.

With IQBoard Software, you can easily create a colorful courseware that captures students' eyes. You can enrich your lesson with dynamic multimedia elements and unlimited resources from our Resource Library; you can use various tools to show your ideas freely; you can also save the whole teaching process and share with others…

Chapter 2 Technical Specifications

Model	D006XP	D006LP
Technology	Ultrasonic localization & infrared tracking; use signal pen to write and operate	
Resolution	9600×9600, 600 dpi	
Precision	0.05mm	
Active area	1.5m×2.0m (80" diagonal)	
Signal Tracking Rate	8m/s	
Orientation	4 and 9 points	
Power Supply	USB cable (＜5V/500mA)	
Power Consumption of Signal Pen	≤2W	
Pen Battery	1 AAA battery	
Installation	Mount at the top left corner of whiteboard or other display	Wall mounting or stand mounting
PC Connection	Standard: 3m USB cable	
	Optional: USB signal amplifier for 10m USB cable	
Hotkeys	Optional	
Operating Systems	Windows XP/2003/Vista/7, Linux, Mac 10.X	
System Requirements	Windows XP/2003/Vista/7/8 Intel C2.1 or higher 256 MB RAM or higher 1G free hard disk space (for full installation) 1 free USB port 1 projector (short throw or ultra-short throw projector recommended)	
Temperature and Humidity Requirements	***Storage*** Temperature: -40℃~60℃; Humidity: 0%~95%. ***Operation*** Temperature: 0℃~40℃; Humidity: 15%~85%	
Certifications	CE, FCC, RoHS, ISO 9001. ISO 14001, ISO 14021	
Warranty	3 years for Receiver and Controller upon registration; 1 year for Signal Pen and USB cable	

Chapter 3 Model Description

IQBoard UI includes 2 versions: IQBoard UI D006XP and IQBoard UI D006LP. Each version contains different components.

IQBoard UI D006XP

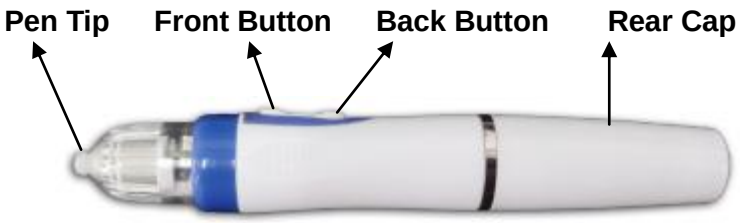
IQBoard UI D006XP is a compact, portable, and easy-to-use device that turns your whiteboard, RP TV or even wall into an interactive platform.

IQBoard UI D006LP

IQBoard UI D006LP is the perfect combination of IQBoard UI D006XP and normal whiteboard, which can support soft hotkeys on the left side.

Chapter 4 Hardware Installation

4.1 Signal Pen



Install Battery

1) Unscrew the rear cap of signal pen by turning it counterclockwise.

2) Insert 1 AAA battery with the plus (+) side up.

3) Screw the battery cap back by turning it clockwise.

4.2 Receiver (for IQBoard UI D006XP only)

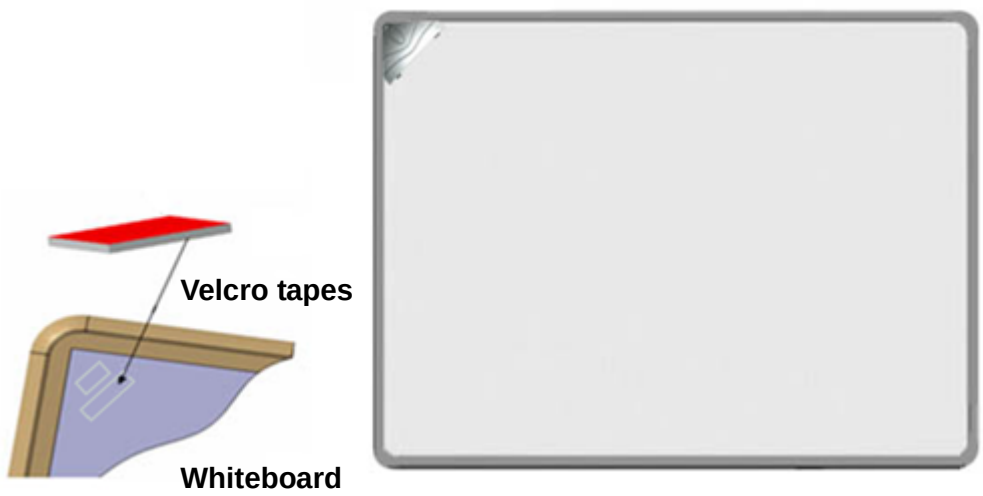
The receiver can receive the signal emitted by signal pen, and then identify actual pen location on the screen or board. Generally the receiver is fixed on the whiteboard or RP TV by velcro.

1） Wipe out the dust at the top left corner of the screen or board surface.

2）Get 2 velcro tapes and affix one side of each velcro tape to the back of the receiver.

3) Affix the other side of each velcro tape at the top left corner of screen or board at a angle of 45°.

4) Align velcro tapes on the receiver with the ones on the screen or board and press them tightly.



Note:

1. Make sure the two sides of the receiver is parallel to those of the frame corner. If the receiver inclines too much, there will be deviation in your operation and writing.

2. To ensure sound signal transmission, please avoid using the receiver on soft curtain or rough wall.

4.3 Mount IQBoard UI D006LP

If you use IQBoard UI D006LP, you should mount it on the wall.

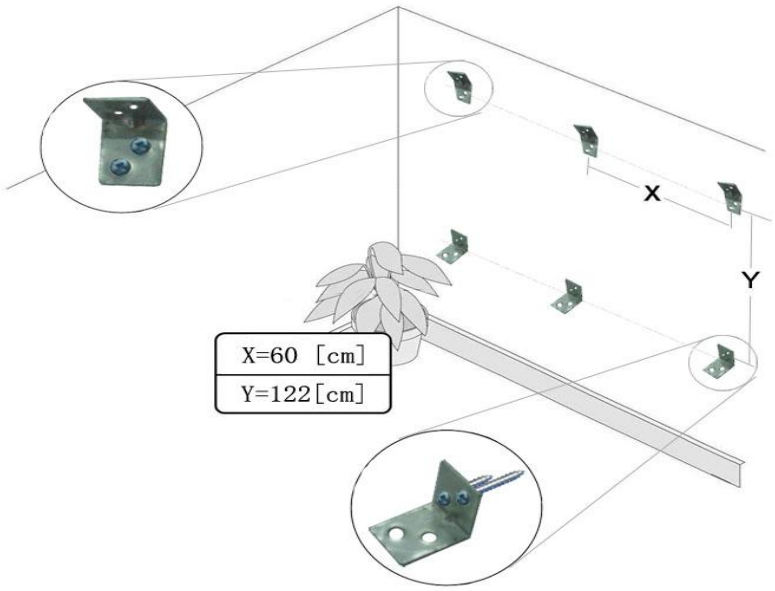
Part List

No.	Item	Quantity	Figure
1	Wall mounting bracket	6	
2	Self-tapping screw	24	

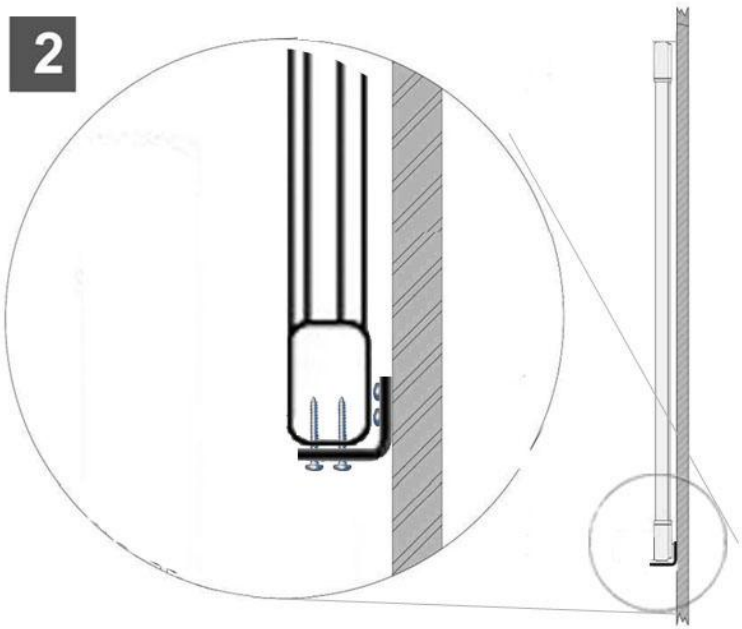
Installation Steps

1. Determine the position of the whiteboard lower edge, then screw 3 wall mounting brackets onto the wall at this height. The distance between each 2 adjacent brackets shall be about 60 cm.

2. Screw the other 3 wall mounting brackets 122 cm above.



3. Put the whiteboard on the 3 lower brackets, align the whiteboard with each bracket, then use self-tapping screws to secure the whiteboard on the brackets.



4.4 Connect Receiver with Controller

The receiver and the controller are connected through 6-pin S-terminal cable. Connect the S-terminal cable of receiver to the PS/2 port of the controller. In case you want to hang the controller on the wall, you need to drill two holes on the wall, screw in the anchor bolts and wall hanging screws (included in the wall hanging suite), then hang the controller on the wall hanging screws.

Note:

1. To avoid stumble, please do not place the cable on the ground. If you have to do so, please straighten and stick them on the ground with colored adhesive tape and wire.

2. When retracting the IQBoard UI, please disconnect controller and computer, then disconnect receiver and controller.

4.5 Connect Controller with PC

You can connect the controller of IQBoard UI with computer through USB cable.

Ports on USB Cable

USB Port A for connecting PC	USB Port B for connecting controller

1. Connect Port A of the USB cable with the USB port on PC.

2. Connect Port B of the USB cable with the USB port on controller. Then the indicator on controller should turn red.

4.6 Adjust Projection Area

In case you use a projector, connect the projector to your PC, and adjust the projection image to make it centered and within the projection area. Then use the trapezoid rectification function of the projector to make the projection image quadrate.

This blue area is the projection area. Its range should be within 40-80 inch. For whiteboards with soft hotkeys, the projection area should not exceed the hotkeys.

Note:

Please do not look at the projector directly to avoid its strong light damaging your

Chapter 5 Install and Uninstall Driver

5.1 Install

Run “*IQBoard UI Driver*” on the installation CD to install the driver. The computer will automatically find a new hardware and install the driver. After the installation, the indicator on the controller should be green.

5.2 Uninstall

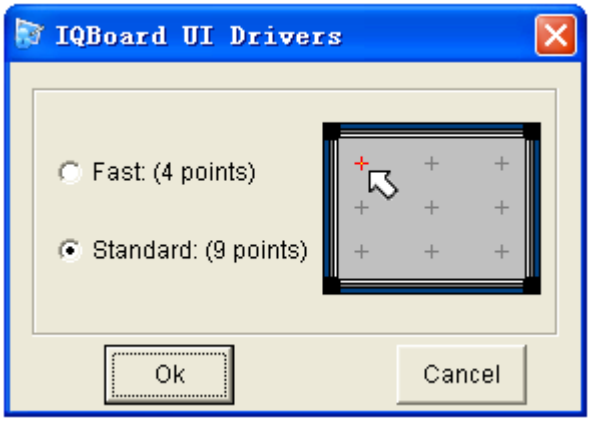
Select *“Start > Programs > IQBoard UI Driver > Uninstall”* to uninstall the driver. You also can open Control Panel, select *“Add/Remove Programs”*, and in the list of Currently Installed Programs, select “*IQBoard UI Driver”*, then click *“Remove”* to remove the driver and orientation program.

Chapter 6 Orientation

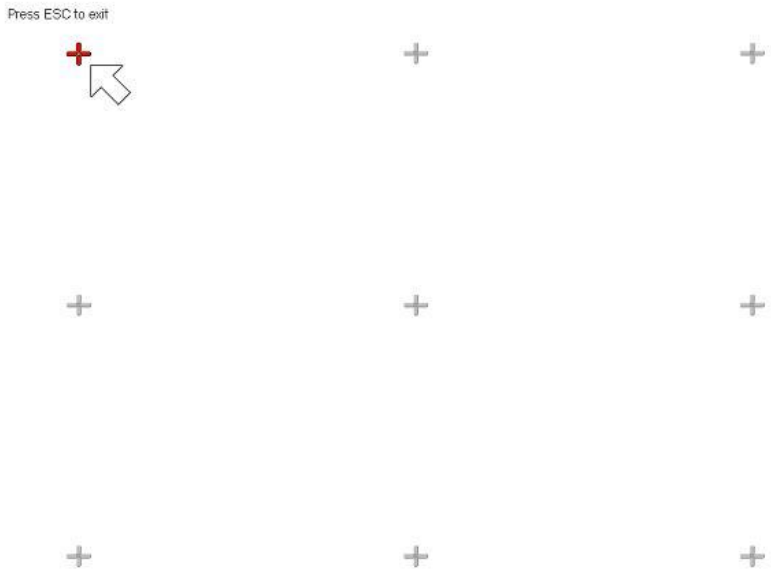
At the first time you use IQBoard UI, you need to orient it, so the moving track of the signal pen can match the cursor. You can select 4 or 9 points orientation. Normally 9 points orientation is adopted. After IQBoard UI is oriented, you don't need to re-orient it in the same environment.

Operation is as follows:

1. Select *"Start > Programs > IQBoard UI Driver > Orient"* to enter the orient precision selection window.



2. Select the target orientation points and click *"OK"*, then the orientation interface will appear. According to the arrows instruction, use signal pen to press the green center of the flickering red "+" on the surface. After one point is successfully oriented, the next point will appear automatically. Simply use your signal pen to click each orientation point in sequence.



3. The orientation interface will close automatically after the orientation. Then you can use signal pen to operate IQBoard UI normally.

Note:

1. If you missed the accurate central point or clicked the wrong point, or the next point appeared without press, please press "ESC" key on the keyboard to exit this orientation and re-orient the board. Otherwise, you can't operate the whiteboard accurately.

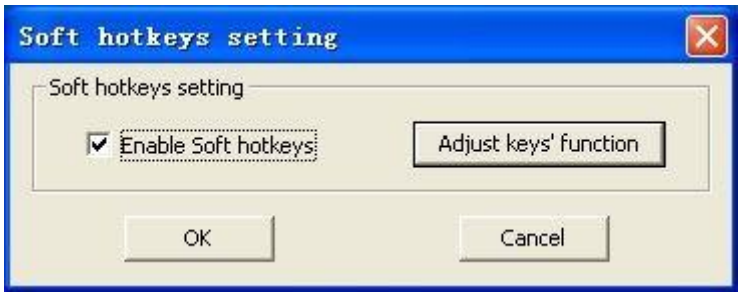
2. In case the relative position of the whiteboard and projector is changed, the driver is updated, or the monitor resolution is altered, please re-orient the board.

Chapter 7 Setup Hotkeys

At the first time you use the whiteboard with soft hotkeys, you need to set these hotkeys.

Operation is as follows:

1. Select *"Start > Programs > IQBoard UI Driver > Hotkey Settings"* to enter the setting window.



2. Select "*Enable hotkeys*", and click "*Adjust hotkey function*", then the soft hotkeys setting interface will appear as follows.

Press ESC to exit
Prompt:
Follow the indication on screen, click relevant hotkey on whiteboard in sequence to assign function

3. Follow the indication on the screen to click relevant hotkeys in sequence. After the setting is completed, you can use these hotkeys.

Press ESC to exit
Prompt:
Follow the indication on screen, click relevant hotkey on whiteboard in sequence to assign function.

Note:

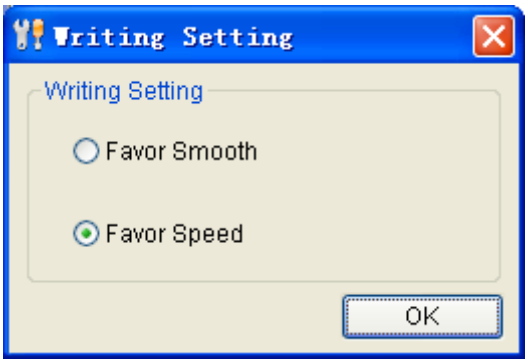
When setting the soft hotkeys, if some error occurs, you can press "ESC" key on the keyboard to exit the setting process, and then reset the hotkeys.

Chapter 8 Writing Settings

You can select Favor Smoothness or Favor Speed for writing. Favor Smoothness is focus on writing smoothness, but the writing speed will be a little slow. While Favor Speed is focus on writing speed, but the writing smoothness is not as good as Favor Smooth.

Operation is as follows:

1. Select *"Start > Programs > IQBoard UI Driver > Writing Settings"* to enter the Writing Settings window.



2. Select the one you like, then click *"OK"*.

Chapter 9 Operation

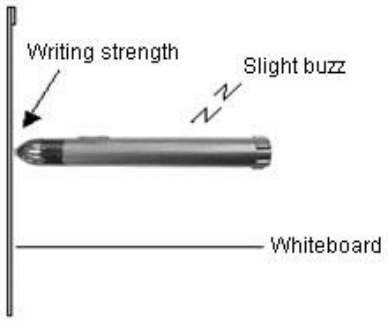
9.1 Signal Pen

Tips for using the signal pen:

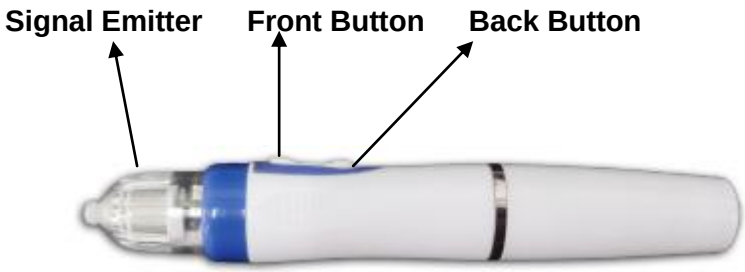
1. Write at proper strength to guarantee that the signal pen can emit writing signal (slight buzz can be heard when you close your ear to the signal pen).

2. Try your best to make sure the signal pen and whiteboard is perpendicular (angle: 90°±15°).

3. In order not to block the signal, you fingers should not cover the signal emitter when writing with signal pen.



You can use the signal pen to do the following operations:



When in Windows Mode

Front Button:
Press the button once to execute left-click function.

Back Button:
Press the button once to execute right-click function;
If IQBoard Software is not started, press the button twice to start IQBoard Software.

When in Board Mode, annotating on desktop, playing page, or reviewing operation

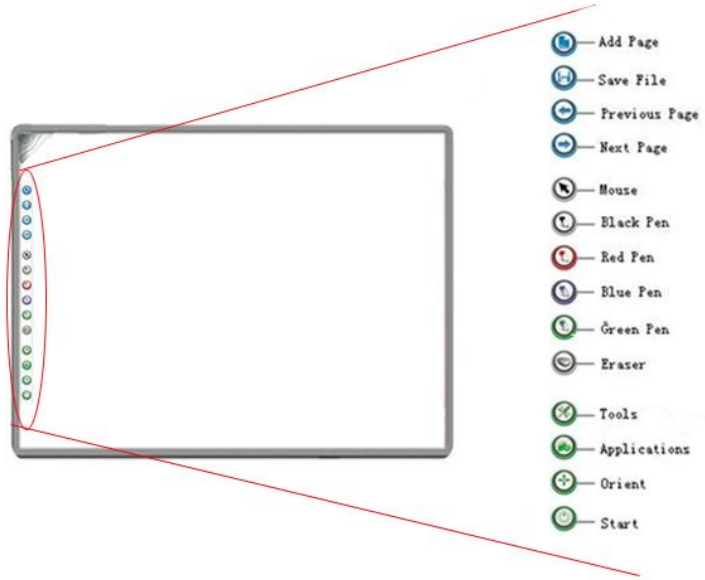
Front Button:
If Select function is not activated, press the button once to use Select function;
If Select function is not activated, press the button twice to use Move Page function *(only available in Board Mode);*
If Select function is activated, press the button once to execute left-click function.

Back Button:
If no Freehand Drawing Tool is selected, press the button once to select a Freehand Drawing Tool;
If no Freehand Drawing Tool or Eraser is selected, press the button twice to select an Eraser;
If any Freehand Drawing Tool is selected, press the button once to select an Eraser;
If any Eraser is selected, press the button once to select a Freehand Drawing Tool.

Note:

1. *The default drawing tool and eraser are Pencil and Normal Circle Eraser.*
2. *System will automatically memorize the type of drawing tool or eraser used last time. For example, if Washing Brush was used last time, then it would be selected again when pressing the button to switch to Freehand Drawing Tool.*

9.2 Hotkeys



IQBoard UI provides hotkeys on the left side of the whiteboard surface. Hotkey functions are as follows:

Add Page: In Windows Mode, press this key to clear all annotations on screen. In Board Mode, press this key to add a new page in current .cdf file.

Save File: In Windows Mode, press this key to save all annotations on screen to a page in current file. In Board Mode, press this key to save the current .cdf file.

Previous Page: Press this key to go to the previous page.

Next Page: Press this key to go to the next page.

Mouse: Press this key, you can use signal pen to achieve click, double-click, and drag function. When using IQBoard Software, press this key to switch between Windows Mode and Board Mode.

Pen: There are four pen keys in different colors on the hotkey bar. Press one of these keys, you can write on board in corresponding color. Press any pen key twice to modify its properties.

Eraser: Press this key, you can erase the writing content on board. In Windows Mode, press this key twice to popup Shut down Windows window.

Tools: Press this key to popup a quick access bar including shortcut icons for frequently used tools in IQBoard Software. You can add up to 8 shortcut icons onto this bar. Press this key again to close the quick access bar.

Applications: Press this key to popup a quick access bar including shortcut icons for frequently used applications. You can add up to 8 shortcut icons onto this bar. Press this key again to close the quick access bar.

Orient: Press this key to popup the orientation interface. Press this key again to close the orientation interface.

Start: Press this key to start IQBoard Software.

Note:

Except the "Start" and "Orient" keys, all other hotkeys are functional only after IQBoard Software is started.

Chapter 10 FAQ

1. The whiteboard indicator is not lighting or turns green but without response during operation.

1) The receiver and controller, or the controller and computer are not well connected, please check and re-connect.

2) The USB port of computer is damaged, please try another one. In case you are using desktop computer, please use its rear USB port.

3) IQBoard UI Driver hasn't been correctly installed. Please uninstall the driver, restart computer, and re-install the driver. After the installation is completed, please reconnect the USB cable with computer.

2. I can't use signal pen to operate or write on the projection area.

1) IQBoard UI Driver hasn't been started, please restart your computer or run *"RSBoardUI.exe"* in the installation folder directly.

2) IQBoard UI Driver hasn't been correctly installed. Please uninstall the driver, restart computer, and re-install the driver. After the installation is completed, please reconnect the USB cable with computer.

3) There is an object in front of the receiver that blocks the signal. Please remove the object.

4) Signal Pen runs out of battery (if the buzz is weak when pressing the pen tip, or *Low Battery window* pops up continually when the signal pen is being normally used, it means the battery is running out). Please replace the battery.

5) IQBoard Software hasn't been started, please start IQBoard Software first.

3. Signal pen can only control part of the virtual whiteboard.

1) Orientation is not precise enough, please try to re-orient.

2) The projection area is too large. Please keep it within 40'' to 80''.

4. I fail to draw a line properly or find it difficult to control.

1) Orientation is not precise enough, please try to re-orient.

2) The signal pen runs out of battery. Please try after you replace the battery.

5. When I operate and write on the whiteboard, the system response is slow, or the stroke is intermittent.

1) The computer is not under normal running or the memory is occupied too much. Please close some applications or restart the computer.

2) Check if there is interference source nearby, such as flashing red light and continuous metal crash. Please try to keep a distance from the interference source.

3) The signal pen runs out of battery. Please try after you replace the battery.

For other questions, please consult our service center or local dealer.

Chapter 11 Cautions and Maintenance

11.1 Receiver and Controller

1. Please do not use sharp or pointed objects to touch the signal receiving area in front of the receiver.
2. To avoid short circuit and other problems, please do not use wet cloth to clean the receiver or controller.
3. Please do not use and install IQBoard UI in dusty, foggy, wet and inclement environment. Keep it away from sharp objects, heat source, corrosive chemicals, fire, and water.
4. Please firmly secure the receiver and controller to avoid falling and damaging the parts.

11.2 USB Cable

Do not put the USB cables on the floor where people might stumble over them. If you have to do so, straighten them and use insulated adhesive tape or cable with contrast color to tie them up. Please don't bend the USB cable excessively. Exposing the USB cable outside for a long time may shorten its life-span and cause other unnecessary damages, so please keep it carefully. If you use the whiteboard in the meeting room or classroom, please fix the cable along the cable alley.

11.3 Transport

Please handle with care, and do not put any weight on the receiver so as to avoid damaging the parts. For long distant transportation, it is suggested to repack the whiteboard with the original packing. If the original packing is unavailable, insert some protective padding between the components to protect them from intense vibration or crash. Please avoid vibration, dampness, electricity, water and pressure in transportation.

11.4 Part Replacement

Please do not disassemble the device or modify its inner structure so as to prevent accident or trouble. For maintenance or part replacement, please resort to our authorized technician. Make sure that you use our designated part or the one with same specification when replacing.